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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/803,374	03/10/2001	Marwan A. Jaber	1213	7373

7590 03/04/2004
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EXAMINER

MAI, TAN V

ART UNIT	PAPER NUMBER
2124	6

2124

DATE MAILED: 03/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1-3, 5, 7-9 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aiken et al.

Rejection grounds continue to be those set forth in the previous office action (Paper No. 4).

3. Applicant's arguments filed on 12-08-03 have been fully considered but they are not persuasive.

Applicant, in his remarks, argues that: (1) "[c]laim 1 recites ... 'each ... having at least two stages of butterfly computing elements'" and (2) [c]laim 1 also recites a combination phase, ... 'said ... including a single stage of butterfly computing elements'".

With respect to the arguments, the examiner carefully reviews the applied reference and the claimed invention. First, the examiner agrees with applicant that Aiken et al do not disclose "**at least two stages of butterfly computing elements**"; however, Aiken et al's processor is capable of performing the equivalent function, e.g., the "UPDATE UNIT" has a "single stage of butterfly processing" and "accumulate" feature (see page 82, left col., Detail View section, "[t]he update unit contains the ability of ad, subtract and **accumulate**". Also, see page 83, right col., lines 11-12, "3. These values are passed to the Update unit for the **second butterfly operation**". Second, the examiner agrees with applicant that Aiken et al do not disclose "**including a single stage of butterfly computing elements**"; however, the "processing and

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communicating tree" (PCT) could provide the equivalent function by the "UPDATE UNIT". It is noted that the "UPDATE UNIT" [of a PPC] has a "single stage of butterfly processing" and received the output results from other PPCs [via the "MUX From PPC n-1,2,3" (see Fig. 2)]. Therefore, the rejection is still proper.

4. The following is an examiner's statement of reasons for allowance: the recorded references do NOT teach or suggest the detail features as recited in independent claims 4, 6, 10-11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (703) 305-9761. The examiner can normally be reached on Tue-Fri from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone numbers for the organization where this application or proceeding is assigned are:

After-final	(703) 746-7238
Official	(703) 746-7239
Non-Official/Draft	(703) 746-7240.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.



**TAN V. MAI
PRIMARY EXAMINER**